SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

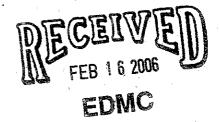
SDG 05I-4703-01 SAF-RC-001

Rad only X Chem only Rad & Chem

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Cover Page

Report Identification Number:

05I-4703-01

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist:

Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number:

DCHM

SAF#: R

: RC-001 / R300XX J451

Payroll#:

73399



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
10 Nov 2005	J10JT5	05I44264	NMAM 7300M	G05BG00Q	MCE
10 Nov 2005	J10HM8	05I44265	NMAM 7300M	G05BG00Q	MCE
10 Nov 2005	J10HM7	05I44266	NMAM 7300M	G05BG00Q	MCE

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Case Narrative Page

Report Identification Number: 05I-4703-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R300XX J451

Payroll#: 73399

General Set Information: There are 3 samples in set 05I-4703-01, 3 samples in set 05I-4705-01, 4 samples in set 05I-4706-01, 4 samples in set 05I-4707-01 and 10 samples in set 05I-4708-01 that were analyzed for beryllium on MCE filter. No problems were encountered with the receipt of these

samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 10 mL of 1:1 (v/v) nitric acid. Samples were digested in a hot block set at 110°C (with a thermometer reading of 98°C) for 40 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of \pm 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.01 ug/sample.

Method Blank Analysis: No beryllium was found in the media blank sample above the Contract Required Detection Limit (CRDL). No lead was found in the media blank sample above the Contract Required Detection Limit (CRDL).

Dilution(s): NA.

Laboratory Control Sample and Duplicate Analysis: Two Laboratory Control Samples (LCSs) and two Laboratory Control Sample Duplicates (LCSDs) were prepared and analyzed with the sample batch.

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Case Narrative Page

The LCS results for beryllium were within the control limit of \pm 20%. The Relative Percent Differences (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: Three samples in this batch were replicated. The RPDs between the samples and the replicates were within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples (μ g/sample) = (A) x (B) x (C) Where:

A = Analyte concentration from instrument determination (ug/L)

B = Concentration factor from sample preparation

= <u>Final Volume of Digestate (L)</u> Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$

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Miscellaneous Comments: None.





Report Page

Report Identification Number:

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Name of Industrial Hygienist:

Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number:

DCHM-

SAF#: RC-001 / R300XX J451

Payroll#: 73399

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sample	- 1	Beryllium μg/m³	Air Volume L
J10JT5	05144264	15 Nov 2005	< 0.01	U	<0.038	264.
J10HM8	05144265	15 Nov 2005	< 0.01	U	**	0.00
J10HM7	05144266	15 Nov 2005	0.013	-	**	0.00
	Limit of I	Detection (LOD)	0.	01		
R	equired Detect	on Limit (RDL)				

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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





QC Summary Page

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05I-4703-01

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist:

Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number:

DCHM

SAF: RC-001 / R300XX J451

Payroll#: 73399

Batch ID: G05BG00Q

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-238263-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
QC-238263-1	LCS	Beryllium	μg/sample	10.1	NA	10.0	101.	NA
QD-238263-1	LCSD	Beryllium	μg/sample	10.5	10.1	10.0	105.	3.61

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MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result – Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

COC Page

Washington Glosure Hanterd

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			CHAIN	OF CU	USTODY/SA	AMPLE A	NALY	SIS RI	EQUEST					
Collector:	I Wolf.	Company Co Denise A. Pit		· 		Telephone No. Project Coordinator 531-1229 Juan H. Kessner			Data Turnaround					
Payroll#: 73	399	Sampling Lo		sldov	Ail relevant CO	IAL INSTRUCTIONS SAF No. RC-001				24 ha.				
Type of Sample:	15349 300 Area (334 A Blday Ridger R 300 ANALYSIS				1	XXJ451 Method of Shipment Federal Expres								
Shipped To:		Ghost 🗌	Wine Sample Media:			- 7300 be			Bill of Lading/Air Bill No. 5541 933756/6					
POSSIBLE SAMPLE H		A - AIR	MATRIX A - AIR Preservation (i.e., cooling			No	No	No	No	No				
Special Handling and	A .	х оп	IER .											
SAMPLE NO.	MATRIX	SAMPLE ANALY SAMPLE DATE	SIS VOLUME (L) Area	Der	Comments	Aspestos Airborne	Lead Airborne	Beryilii Airbon		Mold	R			
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J 1 0 ИМВ	Α	11/10/05	MA	BI	a.k	11/2		X					X	65
J10HM7	A	11/10/05	MA	Blo	ank_			X						186
													<u></u>	
						11/10/05								
WCH-SH-202 (08/2)	9/2005)	-1	.1					· · · · · · · · · · · · · · · · · · ·			Page _	/ or <u></u>)	

Enter on line below the	first Sample No	umber from Page One:
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WCH-SH-202 (08/29/2005)			Puge 2 of 2



COC Page